

## ABSTRACT

A method for generating a multihydrated hydronium ion including the steps: agitating water to reduce cluster size, mixing sulfuric acid in the water, adding a solution containing  $\text{Ca}^{3+}$  ions, removing precipitated Ca sulfate, cooling the resultant liquid to a form a slush, filterin out ice from the slush, distilling free water from the remaining liquid wherein the remaining liquid is  $\text{H}_9\text{O}_4^+$ .